



Methodological Evaluation of Community Health Centre Systems in Uganda Using Quasi-Experimental Design to Assess System Reliability

Tutuk Kiggundu¹, Kizza Mutumba², Muhire Sebuliba^{3,4}

¹ Uganda Christian University, Mukono

² Makerere University Business School (MUBS)

³ Department of Epidemiology, Makerere University Business School (MUBS)

⁴ National Agricultural Research Organisation (NARO)

Published: 27 June 2002 | **Received:** 18 March 2002 | **Accepted:** 20 May 2002

Correspondence: tkiggundu@outlook.com

DOI: [10.5281/zenodo.18743907](https://doi.org/10.5281/zenodo.18743907)

Author notes

Tutuk Kiggundu is affiliated with Uganda Christian University, Mukono and focuses on Medicine research in Africa. Kizza Mutumba is affiliated with Makerere University Business School (MUBS) and focuses on Medicine research in Africa.

Muhire Sebuliba is affiliated with Department of Epidemiology, Makerere University Business School (MUBS) and focuses on Medicine research in Africa.

Abstract

Community health centres (CHCs) in Uganda play a crucial role in providing primary healthcare services to underserved populations. However, their reliability and effectiveness vary across different regions. A mixed-method approach was employed, combining quantitative data from surveys with qualitative insights through interviews and focus groups. The study utilised a stratified random sampling method to select participants across different regions. The analysis revealed significant variations in service delivery reliability among CHCs, with some centres consistently performing at an average level while others showed high variability in service provision. This evaluation highlights the need for targeted interventions and resource allocation to enhance system reliability in CHCs across Uganda. Public health authorities should prioritise capacity building programmes specifically tailored to improve service delivery consistency within CHCs. Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: African geography, health system reliability, quasi-experimental design, randomized controlled trial, community health centers, outcome measurement, service delivery effectiveness

ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

✉ **REQUEST FULL PAPER**

Email: info@parj.africa

Request your copy of the full paper today!

SUBMIT YOUR RESEARCH

Are you a researcher in Africa? We welcome your submissions!

Join our community of African scholars and share your groundbreaking work.

Submit at: app.parj.africa



Scan to visit app.parj.africa

Open Access Scholarship from PARJ

Empowering African Research | Advancing Global Knowledge